

**Sub-Element 4.a—Plume Phase Field Measurements and Analysis
(Continued)**

What the Policy Says	<p>Criterion 4.a.2: Field teams are managed to obtain sufficient information to help characterize the release and to control radiation exposure. (NUREG-0654, H.12; I.8, 11; J.10.a).</p> <p>Extent of Play Responsible Offsite Response Organizations (ORO) should demonstrate the capability to brief teams on predicted plume location and direction, travel speed, and exposure control procedures before deployment.</p> <p>Field measurements are needed to help characterize the release and to support the adequacy of implemented protective actions or to be a factor in modifying protective actions. Teams should be directed to take measurements in such locations, at such times to provide information sufficient to characterize the plume and impacts.</p> <p>If the responsibility to obtain peak measurements in the plume has been accepted by licensee field monitoring teams, with concurrence from OROs, there is no requirement for these measurements to be repeated by State and local monitoring teams. If the licensee teams do not obtain peak measurements in the plume, it is the ORO's decision as to whether peak measurements are necessary to sufficiently characterize the plume. The sharing and coordination of plume measurement information among all field teams (licensee, Federal, and ORO) is essential. Coordination concerning transfer of samples, including a chain-of-custody form, to a radiological laboratory should be demonstrated.</p> <p>OROs should use Federal resources as identified in the Federal Radiological Emergency Response Plan (FRERP), and other resources (for example, compacts, utility, etc.), if available. Evaluation of this criterion will take into consideration the level of Federal and other resources participating in the exercise.</p> <p>All activities must be based on the ORO's plans and procedures and completed as they would be in an actual emergency, unless noted above or otherwise indicated in the extent of play agreement.</p>
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Preparing to Evaluate This Criterion	<p>Before the exercise, determine, according to the ORO's plan/procedures and the Extent of Play agreement:</p> <ul style="list-style-type: none">• Who briefs the field monitoring team prior to deployment and what topics are to be covered?• Who controls the movement of the field teams and the determination of sample location?• What approach is used to select appropriate sampling locations, pre-designated sampling points or plume traverse (while maintaining specified exposure limits)?• Which agency's (ORO, licensee, or other) field monitoring teams are assigned the responsibility of obtaining maximum radiation readings in the downwind areas?• If the ORO teams have this responsibility, what special exposure control mechanisms are used to control exposure and/or dose?• What agency, if any, other than the ORO is to participate in this demonstration and what limitations or restrictions have been established?
During the Exercise	<p>During the exercise, in addition to evaluating activities related to the items listed above, be sure to:</p> <ul style="list-style-type: none">• Observe pre-deployment briefing.• Document all instructions or assignments given to team. Include the time of assignment and the time assignment was completed.• Obtain copies of chain-of-custody forms, if appropriate.